

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100520\  
 Data File : VV018681.D  
 Acq On : 05 Oct 2020 18:21  
 Operator : SY/MD  
 Sample : L4254-10 50X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 06 02:13:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 06 02:11:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 258037   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 252893   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 119889   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 70215    | 46.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.80% |
| 7) Chloroethane-d5             | 1.58    | 69    | 60899    | 48.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.34% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 108244   | 35.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.20% |
| 21) 2-Butanone-d5              | 3.92    | 46    | 102411   | 90.72    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.72% |
| 24) Chloroform-d               | 4.37    | 84    | 142336   | 43.50    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.00% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 91683    | 44.13    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.26% |
| 32) Benzene-d6                 | 5.07    | 84    | 250733   | 39.14    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 78.28% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 80503    | 41.59    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 83.18% |
| 41) Toluene-d8                 | 7.34    | 98    | 256717   | 42.60    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.20% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 42138    | 40.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.60% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 50823    | 69.13    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 69.13% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 89224    | 34.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 69.54% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 94222    | 40.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 81.74% |

## Target Compounds

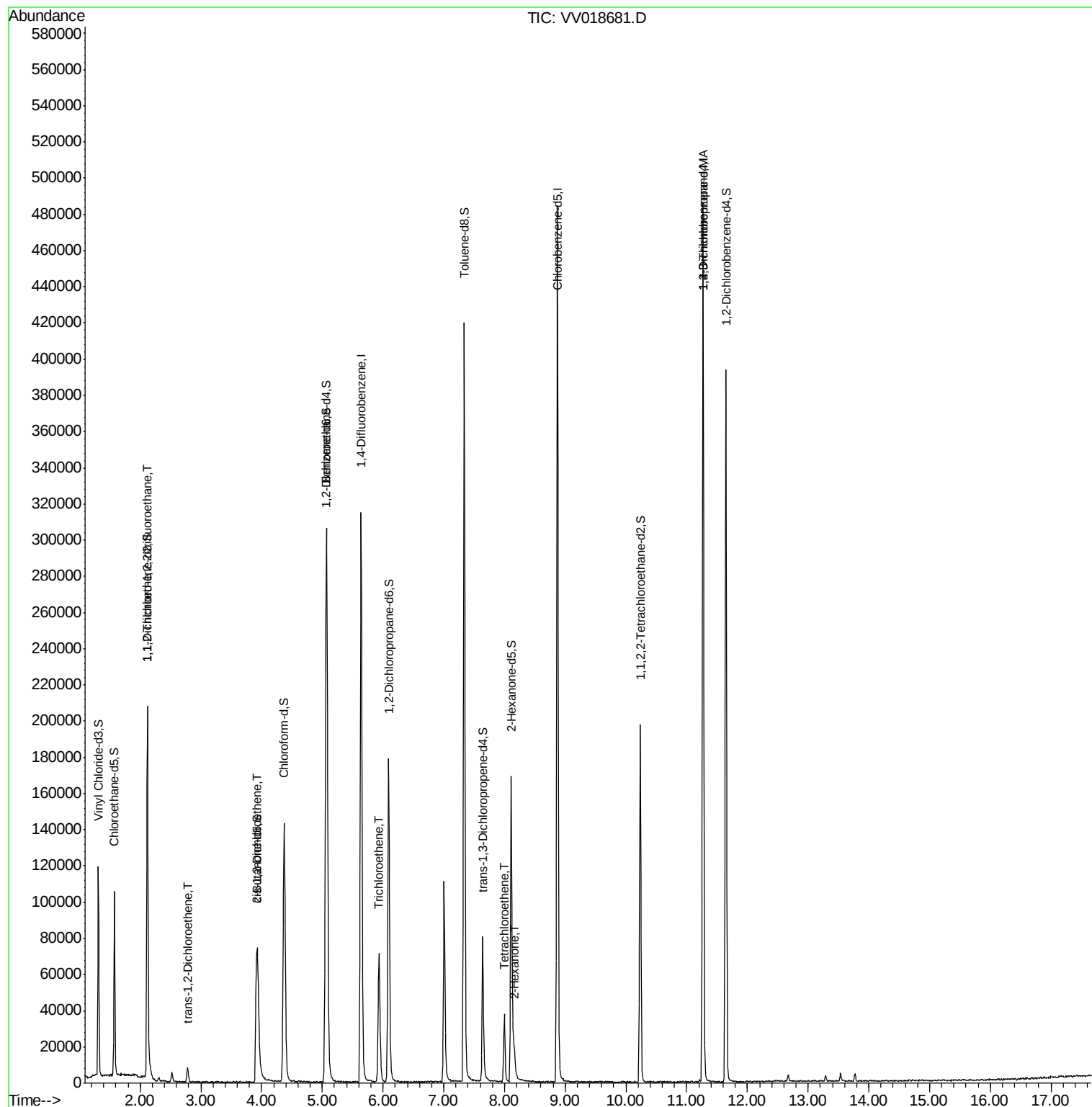
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 1171  | 0.697 ug/L # | 19     |
| 17) trans-1,2-Dichloroethene   | 2.78  | 96  | 2938  | 1.594 ug/L   | 92     |
| 20) cis-1,2-Dichloroethene     | 3.94  | 96  | 18208 | 9.295 ug/L   | 97     |
| 34) Trichloroethene            | 5.94  | 95  | 17896 | 8.297 ug/L   | 95     |
| 46) Tetrachloroethene          | 8.00  | 164 | 7795  | 4.455 ug/L   | 88     |
| 48) 2-Hexanone                 | 8.16  | 43  | 9035  | 4.708 ug/L # | 85     |
| 59) 1,2,3-Trichloropropane     | 11.27 | 75  | 14682 | 6.332 ug/L   | 89     |

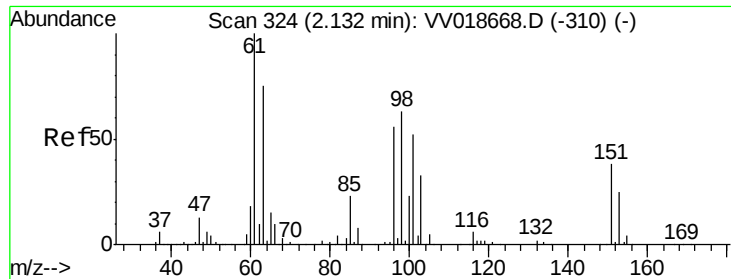
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 06 02:11:36 2020  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.697 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.02 min

Lab File: VV018681.D

Acq: 05 Oct 2020 18:21

Instrument :

MSVOA\_V

ClientSampleId :

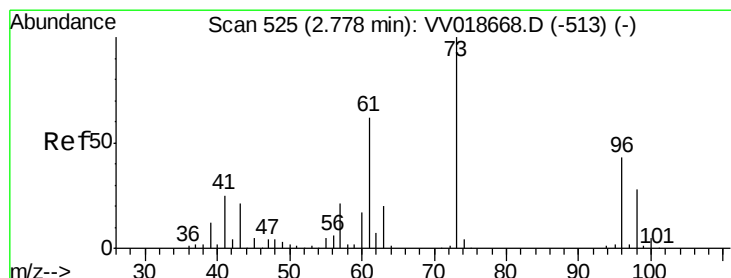
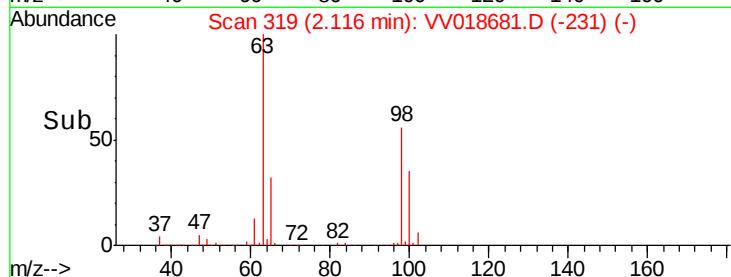
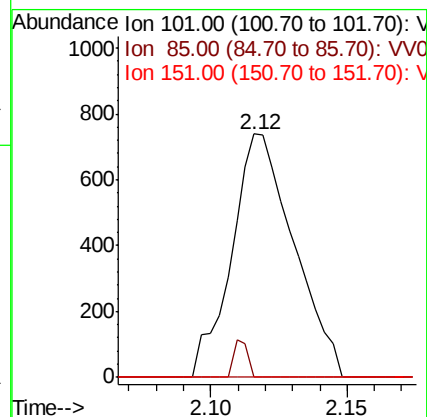
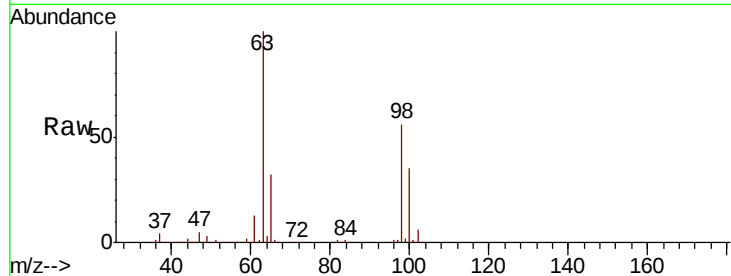
Tot Ion:101 Resp: 1171

Ion Ratio Lower Upper

101 100

85 3.5 34.6 52.0#

151 0.0 64.3 96.5#



#17

trans-1,2-Dichloroethene

Concen: 1.594 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV018681.D

Acq: 05 Oct 2020 18:21

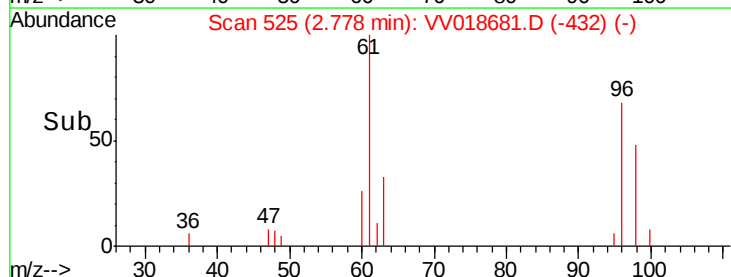
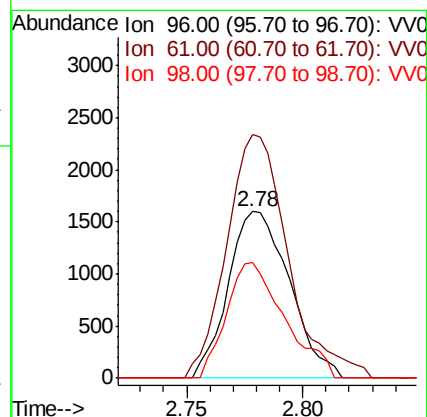
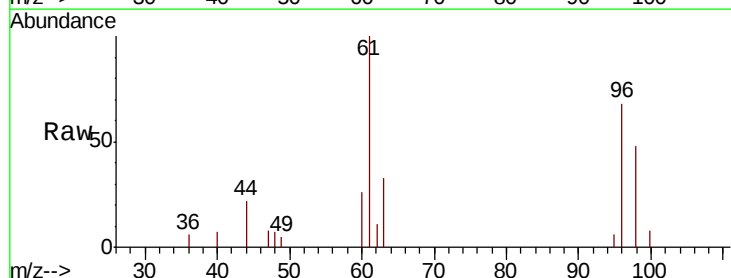
Tgt Ion: 96 Resp: 2938

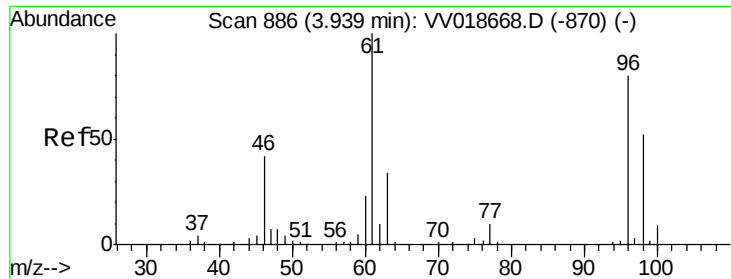
Ion Ratio Lower Upper

96 100

61 146.1 95.0 176.4

98 69.8 44.6 82.8

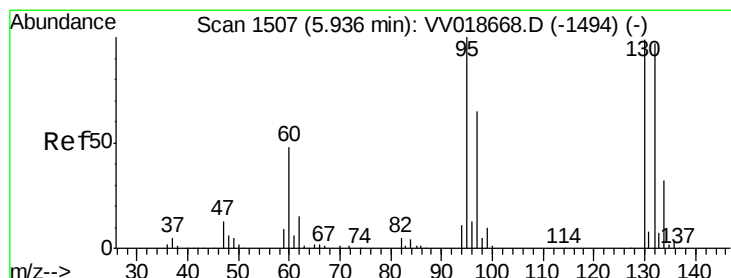
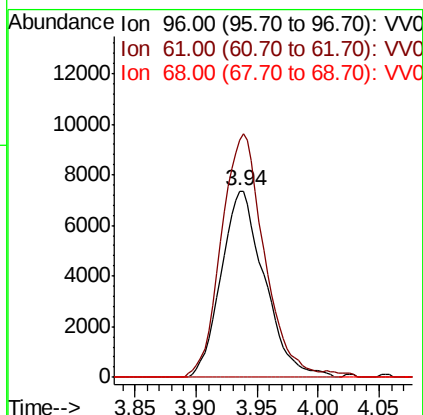
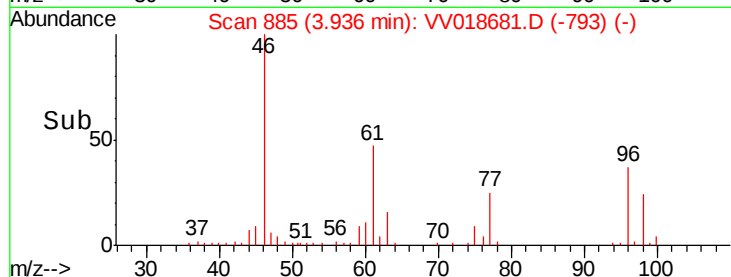
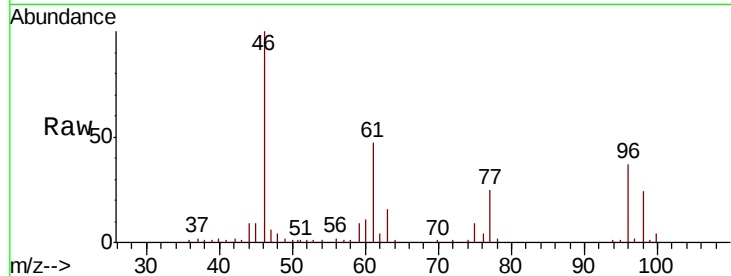




#20  
 cis-1,2-Dichloroethene  
 Concen: 9.295 ug/L  
 RT: 3.94 min Scan# 885  
 Delta R.T. -0.00 min  
 Lab File: VV018681.D  
 Acq: 05 Oct 2020 18:21

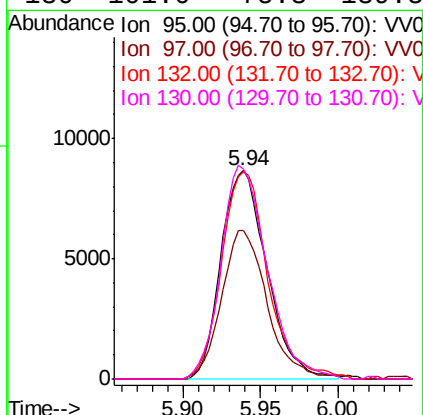
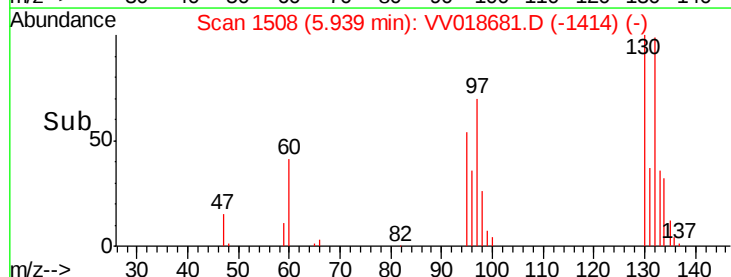
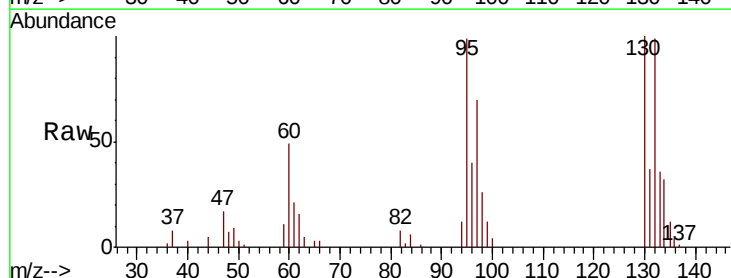
Instrument :  
 MSVOA\_V  
 ClientSampleId :

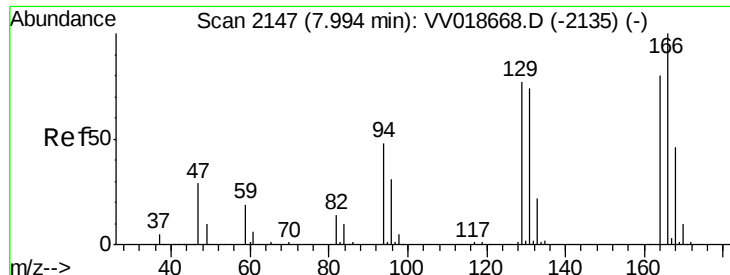
Tot Ion: 96 Resp: 18208  
 Ion Ratio Lower Upper  
 96 100  
 61 127.3 86.8 161.2  
 68 0.0 0.0 0.0



#34  
 Trichloroethene  
 Concen: 8.297 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.00 min  
 Lab File: VV018681.D  
 Acq: 05 Oct 2020 18:21

Tgt Ion: 95 Resp: 17896  
 Ion Ratio Lower Upper  
 95 100  
 97 71.0 45.9 85.3  
 132 99.6 70.8 131.4  
 130 101.0 75.3 139.8

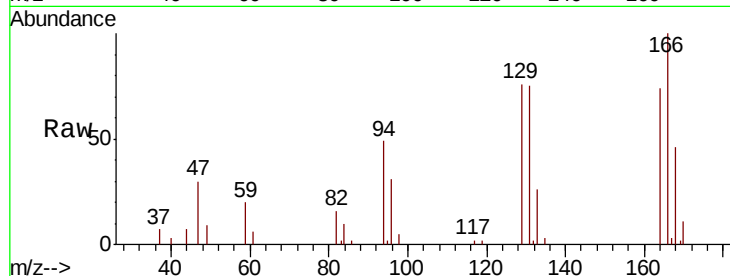




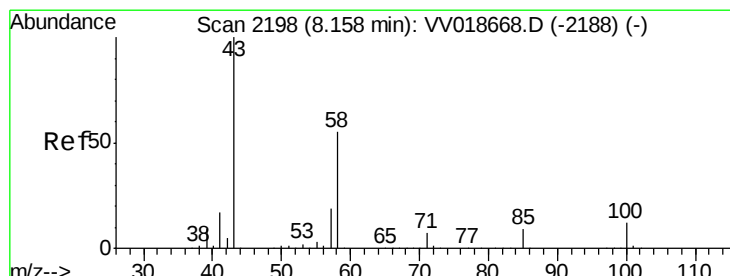
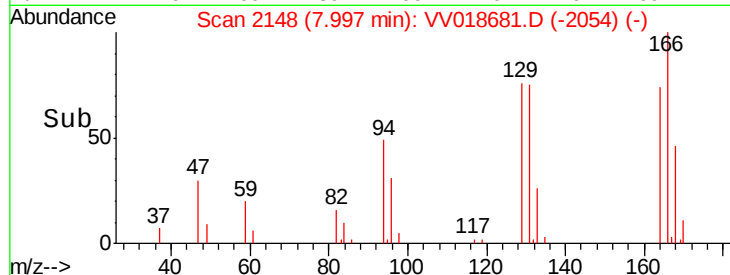
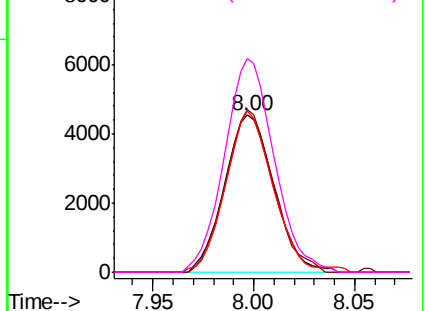
#46  
Tetrachloroethene  
Concen: 4.455 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. 0.00 min  
Lab File: VV018681.D  
Acq: 05 Oct 2020 18:21

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:164 Resp: 7795  
Ion Ratio Lower Upper  
164 100  
129 103.2 62.8 116.6  
131 102.5 60.8 112.8  
166 136.0 88.9 165.1

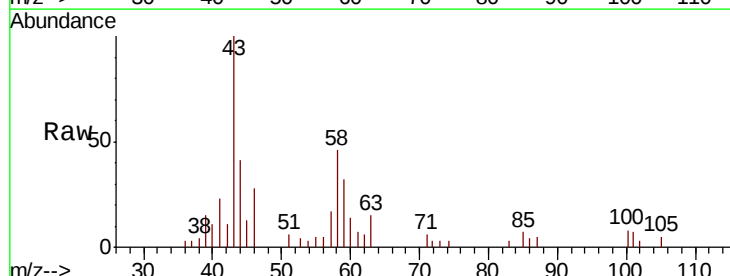


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

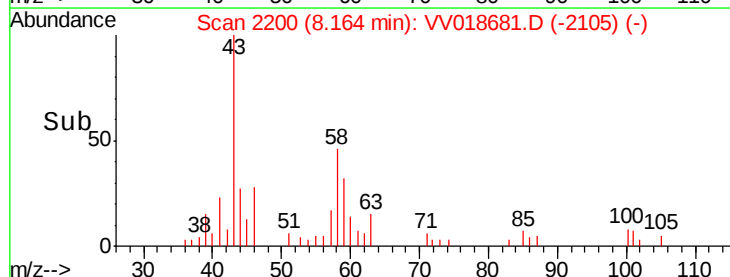
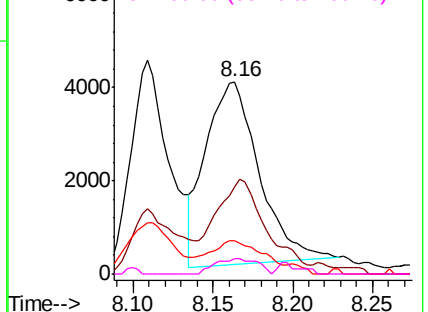


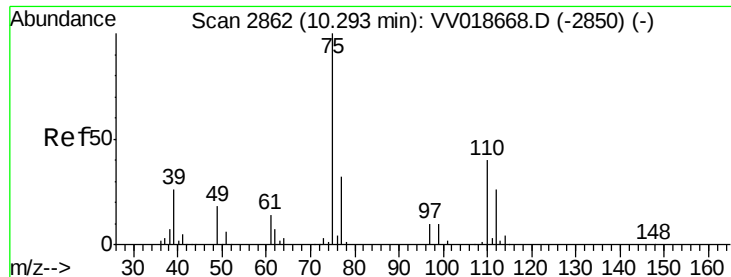
#48  
2-Hexanone  
Concen: 4.708 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. 0.01 min  
Lab File: VV018681.D  
Acq: 05 Oct 2020 18:21

Tgt Ion: 43 Resp: 9035  
Ion Ratio Lower Upper  
43 100  
58 45.0 45.1 67.7#  
57 16.3 15.7 23.5  
100 5.3 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0





#59  
 1,2,3-Trichloropropane  
 Concen: 6.332 ug/L  
 RT: 11.27 min Scan# 3166  
 Delta R.T. 0.98 min  
 Lab File: VV018681.D  
 Acq: 05 Oct 2020 18:21

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 75 Resp: 14682  
 Ion Ratio Lower Upper  
 75 100  
 77 37.7 25.4 38.0

